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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,786	03/05/2002	Hidekiyo Takaoka	M1071.1712	1545
7:	590 07/07/2003			
DICKSTEIN SHAPIRO MORIN & OSHINSKY, LLP 1177 Avenue of the Americas New York, NY 10036			EXAMINER IP, SIKYIN	
		•	1742	
		DATE MAILED: 07/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/087,786	TAKAOKA ET AL.
Office Action Summary	Examin r	Art Unit
	Sikyin Ip	1742
The MAILING DATE of this communication Peri d for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thi niod will apply and will expire SIX (6) MOI atute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. & 133).
Status	05.44 / 0000	
1) Responsive to communication(s) filed on		
·	This action is non-final.	
3) Since this application is in condition for all closed in accordance with the practice uno Disposition of Claims	owance except for formal ma der <i>Ex parte Quayle</i> , 1935 C	Itters, prosecution as to the merits is D. 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1-6</u> is/are pending in the applicati	on.	•
4a) Of the above claim(s) is/are with	drawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		
7) Claim(s) is/are objected to.		•
8) Claim(s) are subject to restriction an	d/or election requirement.	
Application Papers	•	
9)☐ The specification is objected to by the Exam	niner.	
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to by t	he Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□ o	lisapproved by the Examiner.
If approved, corrected drawings are required in	reply to this Office action.	
12)☐ The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) . Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		•
1. Certified copies of the priority docum	ents have been received.	
2. Certified copies of the priority docum	ents have been received in A	pplication No
 3. Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a 	Bureau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dom	• • •	
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper Note 	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
. Patent and Trademark Office TO-326 (Rev. 04-01) Office	Action Summary	Part of Paper No. 2

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 is indefinite because the Mn range is unclear.

Claim Rejections - 35 USC § 103

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each

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claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

- 6. Claims 1-3 are rejected under 35 U.S.C. § 103 as being unpatentable over CN 1205260 .
- 7. Claims 1-4 are rejected under 35 U.S.C. § 103 as being unpatentable over USP 5512242 to Tanaka et al.
- 8. The reference(s) disclose(s) the features including the claimed Sn based alloy compositions. The features relied upon described above can be found in the reference(s) at: their abstracts. Forming a bonded Sn based bearing layer to a backing plate as disclosed by Tanaka reads on the claimed solder function. Thus, an obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art to make a claimed compound, in the expectation that compounds similar in structure will have similar properties. In re Gyurik, 596 F.2d 1012, 1018, 201 USPQ 552, 557 (CCPA 1979); See In re May, 574 F.2d 1082, 1094, 197 USPQ 601, 611 (CCPA 1978); In re Hoch, 57 CCPA 1292, 1296, 428 F.2d 1341, 1344, 166 USPQ 406, 409 (1970); and In re Wood, 582 F.2d 638, 641, 199 USPQ 137, 139 (CCPA 1978). Therefore, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the

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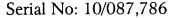
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subject matter disclosed by the reference. Overlapping ranges have been held to be a prima facie case of obviousness. See In re Malagari, 499 F.2d 1297, 1303, 182 USPQ 549, 553 (CCPA 1974).

- 9. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 5512242 to Tanaka et al (Tanaka '242) as applied to claims 1-4 above, and further in view of USP 5543236 to Tanaka et al (Tanaka '236).
- 10. The claimed subject matter as is disclosed and rejected above by the Tanaka '242 reference(s) except for the material of backing plate. However, Tanaka '236 in the abstract teaches backing plate could be plated with Cu in the same field of endeavor or the analogous metallurgical art to form a multi-layered slide bearing. Therefore, it would have been obvious to one having ordinary skill in the art of the cited references at the time the invention was made to plate the backing plate with Cu or Zn as taught by Tanaka '236 in order to make a multi-layered slide bearing. In re Venner, 120 USPQ 193 (CCPA 1958), In re LaVerne, et al., 108 USPQ 335, and In re Aller, et al., 105 USPQ 233.

Conclusion

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).



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All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (703) 308-2542. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (703)-308-1146.

The facsimile phone number for this Art Unit 1742 are (703) 305-3601 (Official Paper only) and (703) 305-7719 (Unofficial Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. Ip June 27, 2003